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MADISON RIVER RECREATION STUDY, 1982

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SUMMARY TABLES FOR BANK FISHERMEN

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MADISON RIVER RECREATION STUDY

SUMMARY TABLES FOR BANK FISHERMEN INTERVIEWED BETWEEN WOLF CREEK AND McATEE BRIDGE

USE SEASON - SUMMER 1981

COOPERATING PARTIES

DEPARTMENT OF GEOGRAPHY
NORTH TEXAS STATE UNIVERSITY
DENTON, TEXAS 76203

MONTANA DEPARTMENT OF FISH
WILDLIFE AND PARKS
REGION 3
8695 HUFFINE ROAD
BOZEMAN, MONTANA 59715

BUREAU OF LAND MANAGEMENT
BUTTE DISTRICT
P.O. BOX 3388
BUTTE, MONTANA 59701

INTRODUCTION

The Madison River Recreation Project was a cooperative research effort involving the Montana Department of Fish, Wildlife, and Parks, the U.S.D.I. Bureau of Land Management, and North Texas State University. The objective of the study was to obtain information on recreational use and visitor attitudes toward management techniques on the Madison River, Montana.

This report summarizes the response to both an on-site and follow-up mail survey of visitors to the Madison River during the summer use season (May-August) 1981.

During that period 248 bank anglers were contacted and subsequently sent a detailed questionnaire. Of that group, 242 received the questionnaire; 173 people returned the form for a 71% useable response rate.

This report is organized into a series of tables which summarize user response to the on-site registration card and questionnaire.

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PART I

CHARACTERISTICS OF RIVER TRIP AND RIVER VISITORS

Table 1
STATE OF RESIDENCE FOR RESPONDENT

State	# of Respondents
California	29
Colorado	23
Washington	22
Montana	17
New Jersey	7
Iowa	7
Idaho	7
Arizona	7
Oregon	6
New York	5
Kansas	5
Texas	4
Pennsylvania	3
Alabama	3
Tennesse	3
Wisconsin	3
Utah	3
Nevada	3
North Carolina	2
Florida	2
Illinois	2
New Mexico	2
Mississippi	1
South Dakota	1
Minnesota	1
Canada	5
	N=173

Table 2
MONTH RESPONDENT CONTACTED ON-SITE

Month	Frequency	Percent
May	5	2.9
June	37	21.8
July	78	45.9
August	50	29.4
	N=170	100.0

Table 3
LOCATION OF INTERVIEW

Location	Frequency	Percent
McAtee	42	24.6
Palisades	46	26.9
Trout Area	21	12.3
Ruby Creek	37	21.6
S. Madison Campground	8	4.7
Wolf Creek	14	8.2
Kelly Bridge	3	1.7
	N=171	100.0

Table 4
EQUIPMENT OWNERSHIP

Ownership	Frequency	Percent
Commercially Outfitted	13	7.5
Rented	2	1.2
Privately Outfitted	158	91.3
	N=173	100.0

Table 5
GROUP SIZE

Group Size	Frequency	Percent
1 - 2	88	43.0
3 - 4	60	34.8
5 - 9	22	12.1
10+	2	1.1
	N=172	100.0

Table 6
CAMPING ON RIVER

Camping	Frequency	Percent
Yes	80	46.5
No	92	53.4
	N=172	100.0

Table 7
CAMPSITE LOCATION

Location	Frequency	Percent
West Fork	11	13.9
Trout	10	24.1
S. Madison	9	11.4
Ruby Creek	21	26.6
Cabin Creek	2	2.5
Slide Inn	4	5.1
Bakers Hole	1	1.3
Palisades	3	3.8
Varney	3	3.8
Ennis	1	1.3
W. Yellowstone	2	2.4
Shorebank	1	1.3
Beaver Creek	2	2.5
	79	100.0

TABLE 8
RESPONDENTS FIRST VISIT TO MADISON RIVER

First Visit	Frequency	Percent
Yes	69	39.9
No	104	60.1
	173	100.0

TABLE 9
FREQUENCY OF VISITATION PER YEAR

Number of Visits	Frequency	Percent
1	50	48.2
2	13	13.3
3	11	10.5
4	5	4.3
5	4	3.9
6-10	9	8.5
11+	12	11.3
	104	100.0

353
Ave. 3.39 days

TABLE 10
LENGTH OF RIVER VISIT

Days	Frequency	Percent
1	38	22.2
2	24	14.0
3-5	45	26.3
6-10	28	16.4
11+	36	21.1
	171	100.0

PART II

PERCEPTIONS OF CROWDING

TABLE 12
EXPECTATIONS OF MEETING OTHER USERS

CATEGORIES	CATEGORY RANK
Far Fewer Than Expected	1
Fewer Than Expected	2
About What I Expected	3
More Than I Expected	4
Far More Than Expected	5
Had no Expectations	6

TABLE 13
DESIRED ENCOUNTER LEVELS WITH OTHER USERS

CATEGORIES	CATEGORY RANK
Alot More People	1
A Few More People	2
Neither Fewer Nor More People	3
A Few Less People	4
Far Fewer People	5

TABLE 11A
ESTIMATED NUMBER OF PEOPLE SEEN BY BANK FISHERMEN

BANK FISHERMEN OBSERVED

Number of People Seen	Frequency	Percent
0	8	5.5
1-2	19	13.0
3-5	29	19.9
6-10	44	30.2
11-15	13	8.9
16-20	12	8.2
21-25	5	3.4
26-50	11	7.5
51 +	5	3.4
	146	100.0

TABLE 11B
ESTIMATED NUMBER OF PEOPLE SEEN BY BANK FISHERMEN

FLOAT FISHERMEN OBSERVED

Number of People Seen	Frequency	Percent
0	17	12.1
1-2	9	6.4
3-5	17	12.1
6-10	22	15.8
11-15	12	8.5
16-20	15	10.8
21-25	11	7.8
26-50	22	15.8
51 +	15	10.7
	140	100.0

TABLE 11C
ESTIMATED NUMBER OF PEOPLE SEEN BY BANK FISHERMEN

RECREATIONAL BOATERS OBSERVED

Number of People Seen	Frequency	Percent
0	74	60.7
1-2	16	13.2
3-5	9	7.3
6-10	10	8.4
11-15	4	3.2
16-20	3	2.4
21-25	4	3.2
26-50	0	0.0
51 +	2	1.6
	122	100.0

TABLE 11D
ESTIMATED NUMBER OF PEOPLE SEEN BY BANK FISHERMEN

TRAIL USERS OBSERVED

Number of People Seen	Frequency	Percent
0	100	84.0
1-2	7	5.8
3-5	5	4.2
6-10	4	3.4
11-15	0	0.0
16-20	2	1.7
21-25	1	0.9
26-50	0	0.0
51 +	0	0.0
	119	100.0

TABLE 11E
ESTIMATED NUMBER OF PEOPLE SEEN BY BANK FISHERMEN

CAMPERS OBSERVED

Number of People Seen	Frequency	Percent
0	23	29.4
1-2	4	5.2
3-5	7	9.0
6-10	21	26.9
11-15	3	3.9
16-20	5	6.4
21-25	0	0.0
26-50	7	9.0
51 +	8	10.2
	78	100.0

TABLE 11F
AVERAGE NUMBER OF PEOPLE SEEN BY BANK FISHERMEN

	Average Number of People	St. Dev.
Bank Fishermen	12	16
Float Fishermen	22	26
Recreational Boaters	5	13
Trail Users	1	4
Campers	18	28

TABLE 12
EXPECTATIONS OF MEETING OTHER USERS

Group or Location	How Did the Number of People Seen Compare to Your Expectations												Totals		Mean* Score
	Far fewer than expected		Fewer than expected		About what I expected		More than I expected		Far more than expected		Had no expectations				
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	
Bank Fishermen	17	11.7	38	26.3	65	44.9	14	9.6	4	2.7	7	4.8	145	100.0	2.40
Float Fishermen	4	2.9	18	13.1	38	27.8	40	29.2	23	16.8	14	10.2	137	100.0	3.48
Recreational Boaters	22	17.6	18	14.6	39	31.2	9	7.2	11	8.8	26	20.6	125	100.0	2.68
Trail Users	23	22.3	18	17.5	30	29.2	3	2.9	2	1.9	27	26.2	103	100.0	2.25
People at Campsite	14	18.2	17	22.1	24	31.2	8	10.3	4	5.3	10	12.9	77	100.0	2.56

* Category "Had no expectations" was not used in calculating Mean Score.

TABLE 13
DESIRED ENCOUNTER LEVELS WITH OTHER USERS

Group or Location	Would Like to Have Seen												
	A lot more people		A few more people		Neither fewer nor more people		A few less people		Far fewer people		Totals		Mean Score
	#	%	#	%	#	%	#	%	#	%	#	%	
Bank Fishermen	2	1.4	14	9.5	92	62.6	27	18.3	12	8.2	147	100.0	3.22
Float Fishermen	0	0.0	1	0.7	52	37.7	39	28.3	46	33.3	138	100.0	3.94
Recreational Boaters	0	0.0	2	1.7	81	71.7	15	13.3	15	13.3	113	100.0	3.38
Trail Users	2	2.1	13	13.7	75	78.9	2	2.1	3	3.2	95	100.0	2.90
People at Campsites	0	0.0	4	5.4	55	75.4	8	10.9	6	8.3	73	100.0	3.21

PART III

USER PERCEPTIONS OF PROBLEMS, MANAGEMENT TECHNIQUES, CONFLICTS, AND SATISFACTION

TABLE 14
PROBLEMS EXPERIENCED DURING RIVER VISIT

CATEGORIES	CATEGORY RANK
Not A Problem	1
Slight Problem	2
Moderate Problem	3
Serious Problem	4
Very Serious Problem	5

TABLE 15
ATTITUDES TOWARD MANAGEMENT ALTERNATIVES

CATEGORIES	CATEGORY RANK
Strongly Oppose	1
Oppose	2
Neither Support nor Oppose	3
Support	4
Strongly Support	5

TABLE 16
OBSERVED CONFLICTS BETWEEN USER GROUPS

CATEGORIES	CATEGORY RANK
No Conflict Observed	1
Slight Conflict	2
Moderate Conflict	3
Serious Conflict	4
Very Serious Conflict	5

TABLE 18
USER SATISFACTION WITH RIVER TRIP

CATEGORIES	CATEGORY RANK
Strongly Disagree	1
Disagree	2
Neither Agree of Disagree	3
Agree	4
Strongly Agree	5

TABLE 14
PROBLEMS EXPERIENCED DURING RIVER VISIT

Problem Experienced	Not a problem		Slight problem		Moderate problem		Serious problem		Very serious problem		Totals		Mean Score
	#	%	#	%	#	%	#	%	#	%	#	%	
Litter in or along a river	107	62.2	45	26.3	15	8.8	1	0.5	3	1.8	171	100.0	1.52
Obstructions in river (logs, limbs, fences)	139	81.3	27	15.7	4	2.4	0	0.0	1	0.6	171	100.0	1.22
Too few drinking water sources	108	62.8	35	20.3	23	13.4	5	2.9	1	0.6	172	100.0	1.58
Too many homes or cottages along the river	99	57.6	28	16.3	24	13.9	12	7.0	9	5.2	172	100.0	1.86
Off-road vehicles in river area	128	74.4	24	14.0	15	8.7	2	1.2	3	1.7	172	100.0	1.41
People being inconsiderate or making noise	129	75.0	25	14.5	12	7.0	5	2.9	1	0.6	172	100.0	1.39
Too many people floating on the river	64	38.8	31	18.8	24	14.6	25	15.2	21	12.6	165	100.0	2.44
Motorized boats on the river	150	89.3	6	3.5	5	3.0	2	1.1	5	3.1	168	100.0	1.25

TABLE 14 CONTINUED

Problem experienced	Not a problem		Slight problem		Moderate problem		Serious problem		Very Serious problem		Totals		Mean Score
	#	%	#	%	#	%	#	%	#	%	#	%	
Utility poles and lines	155	90.6	10	5.8	3	1.8	2	1.2	1	0.6	171	100.0	1.15
Too many commercial establishments	142	83.0	16	9.4	7	4.1	5	2.9	1	0.6	171	100.0	1.28
Inadequate toilet facilities at put-in and take-out points	112	67.4	33	19.9	16	9.7	5	3.0	0	0.0	166	100.0	1.48
Too few toilet facilities along river between put-in and take-out points	120	72.3	29	17.5	15	9.0	2	1.2	0	0.0	166	100.0	1.39
Not enough law enforcement	117	69.2	16	9.5	17	10.1	11	6.5	8	4.7	169	100.0	1.68
Too much law enforcement	163	95.8	3	1.8	3	1.8	1	0.5	0	0.0	170	100.0	1.07
Roads within sight of river	118	69.4	31	18.2	14	8.3	1	0.6	6	3.5	170	100.0	1.50
Low flying aircraft	158	94.0	5	3.0	3	1.7	0	0.0	2	1.3	168	100.0	1.11

TABLE 14 CONTINUED

Problem experienced	Not a problem		Slight problem		Moderate problem		Serious problem		Very Serious problem		Totals		Mean scores
	#	%	#	%	#	%	#	%	#	%	#	%	
Too many signs along river	161	94.2	6	3.4	2	1.2	0	0.0	2	1.2	171	100.0	1.10
Too few signs along river	144	85.2	11	6.5	9	5.3	2	1.2	3	1.8	169	100.0	1.27
Inconsiderate bank fishermen	139	82.3	19	11.3	5	2.9	5	2.9	1	0.6	169	100.0	1.28
Inadequate information services (sign displays) at put-in points	111	67.6	31	18.9	17	10.4	3	1.8	2	1.3	164	100.0	1.50
Livestock	141	84.4	17	10.2	4	2.4	2	1.2	3	1.8	167	100.0	1.25
Human body waste	133	78.7	26	15.4	7	4.1	2	1.2	1	0.6	169	100.0	1.29
Theft of personal property	161	94.2	4	2.3	3	1.7	1	0.6	2	1.2	171	100.0	1.12
Navigation problems due to low water levels	144	87.8	15	9.2	4	2.4	1	0.6	0	0.0	164	100.0	1.15

TABLE 14 CONTINUED

Problem experienced	Not a problem		Slight problem		Moderate problem		Serious problem		Very serious problem		Totals		Mean scores
	#	%	#	%	#	%	#	%	#	%	#	%	
Inadequate brochures showing map of river, hazards, access points, etc.	107	63.7	28	16.6	27	16.1	4	2.4	2	1.2	168	100.0	1.60
Unskilled floaters using river	122	73.9	18	10.9	12	7.4	7	4.2	6	3.6	165	100.0	1.52
Poor quality campsites	139	85.3	13	8.0	10	6.1	1	0.6	0	0.0	163	100.0	1.22
Current mining activities	138	86.3	9	5.6	2	1.3	4	2.5	7	4.3	160	100.0	1.33
Too many people using trails	154	94.5	72	4.3	0	0.0	0	0.0	2	1.2	163	100.0	1.09
Existing campsites overcrowded	122	77.2	20	12.7	12	7.6	4	2.5	0	0.0	152	100.0	1.35
Campsite locations not clearly identified	127	79.8	18	11.4	11	6.9	3	1.9	0	0.0	159	100.0	1.30
Inadequate no. of campsites	118	74.2	27	16.9	12	7.6	2	1.3	0	0.0	159	100.0	1.35
Inconsiderate floaters	98	60.4	28	17.3	14	8.7	9	5.6	13	8.0	162	100.0	1.80

TABLE 14A
PROBLEMS OBSERVED ON RIVER VISIT

Problem	Frequency
Lack of Facilities for Primitive Camping	1
Crowded Campsites	1
Too Many Second Homes	1
Too Many People	2
White Fish on Banks	1
Keeping Fish in Catch and Release Area	1
Greater Flow in River	1
Inconsiderate Float Fishermen	3
Reduce Size Limits	1
Landowners Keeping Trout	1
Improper Handling of Fish	1
Lack of River Access	2
Aggressive Commercial Outfitters	1
Guided Groups Killing Fish	1
Too Many Whitefish	1
More Wardens	1
Too Many Commercial Fishermen	1
Motor Boats	1
	22

TABLE 15
ATTITUDES TOWARD MANAGEMENT ALTERNATIVES

Management Alternatives	Strongly oppose		Oppose		Neither support nor oppose		Support		Strongly support		Totals		Mean
	#	%	#	%	#	%	#	%	#	%	#	%	
Provide more points of public access to the river	28	16.6	27	15.9	22	13.0	62	36.7	30	17.8	169	100.0	3.23
Require more people to carry out their own trash	1	0.6	7	4.1	25	14.6	53	31.0	85	49.7	171	100.0	4.25
Provide more campsites along the river between put-in and take-out points	31	18.5	39	23.2	58	34.5	33	19.6	7	4.2	168	100.0	2.67
Prohibit motorized watercraft on the river	13	7.6	4	2.3	11	6.4	34	19.9	109	63.8	171	100.0	4.29
Post signs warning and advising of hazards	10	5.9	16	9.5	57	33.7	65	38.5	21	12.4	169	100.0	3.42
Provide more parking at access points	14	8.3	21	12.5	81	48.2	45	26.8	7	4.2	168	100.0	3.05

TABLE 15 CONTINUED

Management Alternatives	Strongly oppose		Oppose		Neither support nor oppose		Support		Strongly support		Totals		Mean
	#	%	#	%	#	%	#	%	#	%	#	%	
Allow wood fires only at designated spots	7	4.2	17	10.1	47	28.0	5	31.0	45	26.7	168	100.0	3.66
Prohibit wood fires altogether	32	19.6	64	39.3	55	33.7	3	1.8	9	5.5	163	100.0	2.34
Provide more patrols to assist river users and enforce regulations	11	6.5	11	6.5	69	40.8	42	24.9	36	21.3	169	100.0	3.47
Develop short hiking trails at points along the river	11	6.6	20	12.0	67	40.1	49	29.3	20	12.0	167	100.0	3.28
Prohibit off-road vehicles in the vicinity of the river, except on roads and highways	6	3.6	10	6.0	25	14.9	43	25.5	84	50.0	168	100.0	4.12
Improve existing access roads to put-in and take-out points	10	5.9	16	9.6	73	43.8	55	32.9	13	7.8	167	100.0	3.26
Be more aggressive in the enforcement of safety rules and regulations	8	4.8	4	2.4	70	41.6	52	31.0	34	20.2	168	100.0	3.59

TABLE 15 CONTINUED

Management Alternatives	Strongly oppose		Oppose		Neither support nor oppose		Support		Strongly support		Totals		Mean
	#	%	#	%	#	%	#	%	#	%	#	%	
Allow camping only at designated spots	8	4.8	16	9.5	30	17.9	53	31.5	61	36.3	168	100.0	3.85
Prohibit camping along the river	42	24.9	67	39.6	31	18.4	19	11.2	10	5.9	169	100.0	2.33
Restrict the numbers of people using the river at any one time	34	19.9	63	36.8	38	22.2	27	15.8	9	5.3	171	100.0	2.49
Allow unrestricted camping along the river	78	46.2	54	32.0	13	7.6	16	9.5	8	4.7	169	100.0	1.94
Provide campsites for river users at put-in and take-out points	23	13.6	29	17.1	50	29.6	59	34.9	8	4.8	169	100.0	3.00
Limit the number of people per group allowed on the river	22	12.9	42	24.7	50	29.4	40	23.6	16	9.4	170	100.0	2.90
Achieve better spacing among groups by assigning the time of day when each group may begin its trip	29	17.2	44	26.0	42	24.9	38	22.4	16	9.5	169	100.0	2.81

TABLE 15 CONTINUED

Management Alternatives	Strongly oppose		Oppose		Neither support nor oppose		Support		Strongly support		Totals		Mean
	#	%	#	%	#	%	#	%	#	%	#	%	
Improve the loading areas at put-in and take-out points	11	6.5	21	12.4	94	55.7	33	19.5	10	5.9	169	100.0	3.05
Provide more information along the river identifying facilities and points of interest	9	5.3	28	16.7	63	37.5	55	32.7	13	7.8	168	100.0	3.20
Provide more distance markers along the river	9	5.3	26	15.4	80	47.3	45	26.6	9	5.4	169	100.0	3.11
Have each group be assigned where they are to camp	38	23.0	61	36.9	43	26.1	19	11.5	4	2.5	165	100.0	2.33
Restrict the number of floaters using the river	15	8.9	34	20.1	38	22.5	39	23.1	43	25.4	169	100.0	3.36

TABLE 16
OBSERVED CONFLICTS BETWEEN USER GROUPS

Groups	No Conflict Observed		Slight Conflict		Moderate Conflict		Serious Conflict		Very Serious Conflict		Totals		Mean Score
	#	%	#	%	#	%	#	%	#	%	#	%	
Bank Fishermen and float fishermen	109	63.4	31	18.0	12	7.0	12	7.0	8	4.6	172	100.0	1.71
Recreational boaters (rafters, canoeists) and bank fishermen	131	77.5	27	16.0	3	1.8	5	2.9	3	1.8	169	100.0	1.35
Hikers and landowners	151	88.8	9	5.2	6	3.6	3	1.8	1	0.6	170	100.0	1.20
Recreational boaters (rafters, and canoeists) and float fishermen	148	86.6	15	8.7	5	2.9	1	0.6	2	1.2	171	100.0	1.21
Bank Fishermen and Hikers	165	97.0	4	2.4	0	0.0	0	0.0	1	0.6	170	100.0	1.04
Float Fishermen and Landowners	157	91.2	7	4.1	5	2.9	2	1.2	1	0.6	170	100.0	1.15
Different groups of trail users	164	98.2	1	0.6	1	0.6	0	0.0	1	0.6	167	100.0	1.04
Recreational boaters (rafters, and canoeists) and trail users	161	96.4	4	2.4	0	0.0	0	0.0	2	1.2	167	100.0	1.07

TABLE 16 CONTINUED

Groups	No Conflict Observed		Slight conflict		Moderate Conflict		Serious Conflict		Very Serious Conflict		Totals		Mean Score
	#	%	#	%	#	%	#	%	#	%	#	%	
Different groups of bank fishermen	134	80.2	23	13.8	6	3.6	3	1.8	1	0.6	167	100.0	1.28
Different groups of recreational boaters	153	92.2	8	4.8	3	1.8	0	0.0	2	1.2	166	100.0	1.13

TABLE 17
TYPES AND CAUSES OF CONFLICTS OBSERVED ON RIVER VISIT

Primary Conflicts	Frequency
Boaters Too Close To Bank	7
Bank Fishermen vs Bank Fishermen	7
Overcrowding	4
Too Many Float Fishermen	4
Too Many Commercial Fishermen	1
Bank vs Float Fishermen	25
Recreational Boaters vs Bank Fishermen	2
Landowners vs Bank Fishermen	5
Fishermen	3
Bank Fishermen vs Private Float Fishermen	2
	60

Primary Cause	Frequency
Float Fishermen	24
Too Many Bank Fishermen	3
Poor Fishing Manners	7
Too Many Float Fishermen	3
Navigational Problems from Low Waters	1
Violations of Catch & Release Policy	2
Crowding	6
Parking Fees by Landowners	2
Disregard for Regulations	1
Differences in Fishing Preferences	4
Inconsiderate Recreational Boaters	5
Lack of Access	1
	60

TABLE 18
USER SATISFACTION WITH RIVER TRIP

Satisfaction Measures	Strongly Disagree		Disagree		Neither Agree or Disagree		Agree		Strongly agree		Totals		Mean Score
	#	%	#	%	#	%	#	%	#	%	#	%	
I thoroughly enjoyed the trip	1	0.6	10	5.8	8	4.7	49	28.7	103	60.2	171	100.0	4.42
I was pleased by the job being done by the managers of the river	9	5.3	10	5.9	19	11.2	85	50.0	47	27.2	170	100.0	3.88
The river trip was well worth the money I spent to take it	1	3.2	8	5.1	23	14.7	50	32.1	70	44.9	156	100.0	4.10
I would like to come back and visit this river again	0	0.0	1	0.6	5	2.9	34	19.8	131	76.7	171	100.0	4.72

PART IV

BANK FISHERMEN PERCEPTIONS OF PROBLEMS AND MANAGEMENT TECHNIQUES

TABLE 19
PROBLEMS EXPERIENCED BY FISHERMEN

CATEGORIES	CATEGORY RANK
Not A Problem	1
Slight Problem	2
Moderate Problem	3
Serious Problem	4
Very Serious Problem	5

TABLE 20
ATTITUDES TOWARD FISHERY MANAGEMENT ALTERNATIVES

CATEGORIES	CATEGORY RANK
Strongly Oppose	1
Oppose	2
Neither Support Nor Oppose	3
Support	4
Strongly Support	5

TABLE 19
PROBLEMS EXPERIENCED BY FISHERMEN

Problem	Not a Problem		Slight Problem		Moderate Problem		Serious Problem		Very Serious Problem		Totals		Mean Score
	#	%	#	%	#	%	#	%	#	%	#	%	
Too few boat launch ramps	141	87.5	15	9.3	5	3.2	0	0.0	0	0.0	161	100.0	1.15
Too many commercially guided float fishing parties	53	32.9	37	22.9	27	16.8	21	13.1	23	14.3	161	100.0	2.52
Inadequate fishing regulation information along river	98	59.3	37	22.4	18	10.9	7	4.3	5	3.1	165	100.0	1.69
Too many private float fishing parties	80	49.3	37	22.8	14	8.7	12	7.4	19	11.8	162	100.0	2.09
Too many bank fishermen	124	75.1	26	15.7	9	5.4	4	2.5	2	1.3	165	100.0	1.38
Inadequate numbers of fish in river	104	61.9	27	17.2	19	11.3	8	4.8	8	4.8	168	100.0	1.73
Unskilled fishermen	130	77.9	18	10.8	13	7.7	2	1.2	4	2.4	167	100.0	1.39
Possession limits too restrictive	139	83.3	15	8.9	9	5.4	4	2.4	0	0.0	167	100.0	1.26

TABLE 19 CONTINUED

Problem	Not a Problem		Slight Problem		Moderate Problem		Serious Problem		Very Serious Problem		Totals		Mean Score
	#	%	#	%	#	%	#	%	#	%	#	%	
Inadequate fishing regulation brochure	129	78.7	22	13.4	7	4.2	4	2.5	2	1.2	167	100.0	1.34
Too many fishing wardens along river	163	98.2	3	1.8	0	0.0	0	0.0	0	0.0	166	100.0	1.03
Too many recreational boaters (rafters and canoeists)	119	71.6	26	15.6	10	6.0	2	1.3	9	5.5	166	100.0	1.53
Bait limitations (fly fishing only) are too restrictive	153	91.2	3	1.8	5	2.9	2	1.2	5	2.9	168	100.0	1.23
Catch and release sections are too long	142	85.2	6	3.5	13	7.7	2	1.2	4	2.4	167	100.0	1.32
Not enough large fish in river	95	57.9	27	16.6	24	14.9	8	4.8	9	5.8	163	100.0	18.1

TABLE 19A
PROBLEMS EXPERIENCED BY BANK FISHERMEN

Problem	Frequency
No Problem--Great Fishing	1
Too Many Wardens	1
Too Few Wardens	2
More Regulation Signs at Access Points	1
Unskilled Fishermen	1
Allow Only Catch and Release	10
Not Enough Fish	1
Bait Limitations too Restrictive	1
Fish Over 21" Length Should be Kept in Catch and Release Area	1
Too Many Whitefish	1
Too Many California Fishermen	1
More Access-Ennis to Palisades	1
Separate Float and Bank Fishermen	1
More No-Boat Fishing Areas	1
	24

TABLE 20
ATTITUDES TOWARD FISHERY MANAGEMENT ALTERNATIVES

Management Alternative	Strongly Oppose		Oppose		Neither Support Nor Oppose		Support		Strongly Support		Totals		Mean Scores
	#	%	#	%	#	%	#	%	#	%	#	%	
Reduce length of fishing season	54	32.2	57	33.	43	25.6	10	5.9	4	2.4	168	100.0	2.12
Provide more boat launch ramps	48	29.1	58	35.1	54	32.8	5	3.0	0	0.0	165	100.0	2.09
Increase possession limit numbers	92	55.7	32	19.2	27	16.2	15	8.9	0	0.0	166	100.0	1.78
Decrease possession limit numbers	14	8.3	29	17.3	52	30.9	28	16.7	45	26.8	168	100.0	3.36
Emphasize fish stocking program	50	29.7	27	16.1	26	15.5	45	26.8	20	11.9	169	100.0	2.75
Limit number of recreational boaters (canoeists and rafters)	11	6.7	21	12.6	65	38.9	40	23.9	30	17.9	167	100.0	3.34
Close more of river to float fishing	14	8.4	22	13.2	55	33.2	32	19.3	43	25.9	166	100.0	3.40

TABLE 20 CONTINUED

Management Alternative	Strongly Oppose		Oppose		Neither Support Nor Oppose		Support		Strongly Support		Totals		Mean Scores
	#	%	#	%	#	%	#	%	#	%	#	%	
Open more of river to float fishing	47	28.3	50	30.2	56	33.7	8	4.8	5	3.0	166	100.0	2.24
Limit commercially guided float fishing	7	4.1	16	9.4	53	31.8	46	27.6	45	26.9	167	100.0	3.63
Encourage commercially guided float fishing	56	33.7	49	29.4	51	30.5	7	4.1	4	2.3	167	100.0	2.12
Periodically close sections of the river to all types of fishing	8	4.8	20	11.9	39	23.4	54	32.3	46	27.6	167	100.0	3.65
Shorten catch and release sections	83	49.5	36	21.5	28	16.6	18	10.7	3	1.7	168	100.0	1.94
Shorten closed-to-fishing sections on river	28	16.7	39	23.3	52	31.2	34	20.4	14	8.4	167	100.0	2.80
Establish restrictive regulation sections on river (such as catch and release)	3	1.8	10	6.1	26	15.8	53	32.4	72	43.9	164	100.0	4.10

TABLE 20 CONTINUED

Management Alternative	Strongly Oppose		Oppose		Neither Support Nor Oppose		Support		Strongly Support		Totals		Mean Score
	#	%	#	%	#	%	#	%	#	%	#	%	
Stock river with more fish of all sizes	47	27.9	25	14.8	34	20.3	42	25.1	20	11.9	168	100.0	2.77
Limit number of bank fishermen	77	45.5	52	30.8	33	19.6	5	2.9	2	1.2	169	100.0	1.83
Manage for larger but fewer fish	16	9.4	41	24.2	56	33.2	40	23.7	16	9.5	169	100.0	2.99
Manage for more but smaller fish	36	21.5	69	41.4	49	29.3	12	7.2	1	0.6	167	100.0	2.23
Reduce number of private float fishermen on river	20	12.2	37	22.5	62	37.6	23	13.9	23	13.9	165	100.0	2.95
Prohibit use of natural baits	8	4.7	19	11.3	12	7.1	34	20.3	95	56.6	168	100.0	4.12
Expand fishing season	19	11.3	24	14.3	92	54.7	24	14.3	9	5.4	168	100.0	2.88

PART V

SOCIOECONOMIC CHARACTERISTICS OF RESPONDENTS

TABLE 21
LEVEL OF EDUCATION

Grade Completed	Frequency	Percent
8	1	0.1
9	1	0.1
10	1	0.1
12	15	8.9
College		
13	14	8.2
14	14	8.2
15	9	5.2
16	28	16.4
Post Graduate	89	52.8
	172	100.0

TABLE 22
AGE OF RESPONDENT

Age	Frequency	Percent
15-20	7	4.1
21-30	26	15.1
31-40	61	35.5
41-50	33	19.2
51-64	33	19.2
65+	12	6.9
	172	100.0
	Average Age	41.3
	St. Dev.	13.1

TABLE 23
GENDER OF RESPONDENT

Gender	Frequency	Percent
Male	150	86.7
Female	23	13.3
	173	100.0